

Exhibit A

CONTRACT DATA REQUIREMENTS LIST

DD FORM 1423 (MECHANIZED)

CATEGORY: MISC SYSTEM/ITEM: LACQUER, 4oz BOTTLE
TO CONTRACT/PRON: S64ZJ544

1. SEQUENCE NUMBER	14. DISTRIBUTION	DRFT/REG/REPRO COPIES
2. TITLE OF DATA ITEM		
3. SUBTITLE		
4. DATA ITEM NUMBER		
5. CONTRACT REFERENCE		
6. TECHNICAL OFFICE	7. DD 8. APP 9. DIST STATEMENT	
	250 CODE REQUIRED	
10. FREQUENCY	11. AS OF DATE	15. TOTAL:
12. DATE OF 1ST SUBMISSION	13. DATE OF SUBSEQUENT SUBMISSION	
16. REMARKS		

1. A001	14. SEE ADDRESS CODE	/ /
2. ENGINEERING CHANGE PROPOSAL (ECP)	DISTRIBUTION	/ /
3.	ATTACHED***	/ /
4. DI-CMAN-80639C*		
5. SECTION C		
6. AMSSB-RSO	7. LT	8. - 9. **
10. ASREQ	11. ---	15. TOTAL 0/ 0/ 0
12. ASREQ	13. ASREQ	

16. REMARKS

*SEE ATTACHED DATA DELIVERY DESCRIPTION FOR CONTENT OF THE ECP. CONTRACTOR FORMAT IS ACCEPTABLE, DATA MUST BE IN GOVERNMENT COMPATIBLE SOFTWARE (I.E., MICROSOFT OFFICE). MIL-HDBK-61 MAY BE USEFUL IN DEFINING CONTENT. **DIST STATEMENT WILL BE ASSIGNED AND IMPLEMENTED BY THE DOD CONFIGURATION MGR. ***SEE CONTRACT SECTION C. ELECTRONIC FILES MUST BE LESS THAN 7MB. THE ECP Short Form and ECP Page 1 LOCATED AT [HTTP://W4.PICA.ARMY.MIL/ARDEC-RI/CMFORM.HTM](http://W4.PICA.ARMY.MIL/ARDEC-RI/CMFORM.HTM) ARE THE PREFERRED METHOD OF SUBMISSION FOR THIS DATA ITEM. (DD FORMS 1692 AND 1693)

1. A002	14. SEE ADDRESS CODE	/ /
2. REQUEST FOR DEVIATION (RFD)	DISTRIBUTION	/ /
3.	ATTACHED***	/ /
4. DI-CMAN-80640C*		
5. SECTION C		
6. AMSSB-RSO	7. LT	8. - 9. **
10. ASREQ	11. ---	15. TOTAL 0/ 0/ 0
12. ASREQ	13. ASREQ	

16. REMARKS

* SEE ATTACHED DATA DELIVERY DESCRIPTION FOR CONTENT OF RFD. ADEQUATE DATA/ANALYSIS/TESTING TO SUPPORT THE POSITION RELATIVE TO PARAGRAPH 24 AND 25 OF DATA DELIVERY DESCRIPTION SHALL BE INCLUDED. CONTRACTOR FORMAT IS ACCEPTABLE, BUT DATA MUST BE IN GOVERNMENT COMPATIBLE SOFTWARE (I.E., MICROSOFT OFFICE). MIL-HDBK-61 MAY BE USEFUL IN DEFINING CONTENT. **DISTRIBUTION STATEMENT WILL BE ASSIGNED AND IMPLEMENTED BY THE DOD CONFIG MGR. ***SEE CONTRACT SECTION C. ELECTRONIC FILES MUST BE LESS THAN 7MB. THE RFD/W FORM LOCATED AT [HTTP://W4.PICA.AMRY.MIL/ARDEC-RI/CMFORM.HTM](http://W4.PICA.AMRY.MIL/ARDEC-RI/CMFORM.HTM) IS THE PREFERRED METHOD OF SUBMISSION FOR THIS DATA ITEM. (DD FORM 1694)

1. A003
2. NOTICE OF REVISION (NOR)
3.

14.
SEE ADDRESS CODE / /
DISTRIBUTION / /
ATTACHED** / /

4. DI-CMAN-80642C*

5. SECTION C

6. AMSSB-RSO 7. LT 8. - 9. ***

10. ASREQ 11. ---

15. TOTAL 0/ 0/ 0

12. ASREQ 13. ASREQ

16. REMARKS

*SEE ATTACHED DATA DELIVERY DESCRIPTION FOR CONTENT OF NOR. CONTRACTOR
FORMAT IS ACCEPTABLE, DATA MUST BE IN GOVERNMENT COMPATIBLE SOFTWARE (I.E.,
MICROSOFT OFFICE). MIL-HDBK-61 MAY BE USEFUL IN DEFINING CONTENT. **SEE
CONTRACT SECTION C. ELECTRONIC FILES MUST BE LESS THAN 7MB. NOR FORM LOCATED
AT [HTTP://W4PICA.ARMY.MIL/ARDEC-RI/CMFORM.HTM](http://W4PICA.ARMY.MIL/ARDEC-RI/CMFORM.HTM) IS THE PREFERRED METHOD OF
SUBMISSION FOR THIS DATA ITEM. (DD FORM 1695) ***DISTRIBUTION STATEMENT WILL BE
ASSIGNED AND IMPLEMENTED BY THE DOD CONFIGURATION MANAGER.

THE DATA DELIVERY DESCRIPTIONS ARE AVAILABLE ON THE ATTACHED TACOM-RI INTRANET
SITE:
[HTTPS://AAIS.RIA.ARMY.MIL/AAIS/SOLINFO/STANDARD_ATTACHMENTS/INDEX%20OF%20ATTAC
HMENTS.HTML](https://AAIS.RIA.ARMY.MIL/AAIS/SOLINFO/STANDARD_ATTACHMENTS/INDEX%20OF%20ATTACHMENTS.HTML)

DOCUMENT SUMMARY LIST

Item: LACQUER 4oz BOTTLE
 NSN: 8010-00-085-0559
 Control Number/PRON: S64ZJ544

Identifies all first tier documents (cited in SOW) (applicable DIDs). Also included are all referenced documents (2nd, (includes DID block 10 references), 3rd and lower tier) which have been tailored.

DOCUMENT CATEGORY:

CATEGORY 0 - Unless otherwise specified in the solicitation, contract, or contract modifications, all documents are for guidance and information only.

CATEGORY 1 - The requirements contained in the directly cited document are contractually applicable to the extent specified. All referenced documents are for guidance and information only.

CATEGORY 2 - The requirements contained in the directly cited document and the reference documents identified in the directly cited document are contractually applicable to the extent specified. All subsequently referenced documents are for guidance and information only.

CATEGORY 3 - Unless otherwise specified in the solicitation, contract or contract modification, all requirements contained in the directly cited document and all reference and subsequently referenced documents are contractually applicable to the extent specified.

Document Number (Contract Reference) Applicable Tailoring	Document Title	Document Date/ Document Category
1a. N/A	Section C titled: Configuration Management Documentation	N/A Cat 2
1b. DI-CMAN-80639C (seq A001)	Engineering Change Proposal (ECP)	30 Sep 00 Cat 1
1c. DI-CMAN-80640C (seq A002)	Request for Deviation (RFD)	30 Sep 00 Cat 1
1d. DI-CMAN-80642C (seq A003)	Notice of Revision (NOR)	30 Sep 00 Cat 1

SCOPE OF WORK

SECTION C - DESCRIPTION/SPECIFICATION

TITLE: Lacquer, Camouflage

1.0 SCOPE

This contract requires the production, inspection, packaging and delivery of four (4) ounce bottles of black Lacquer conforming to commercial item description A-A-3164 (or TT-L-20).

2.0 APPLICABLE DOCUMENTS

- 2.1 Commercial Item Description, A-A-3164, Dated 20 Aug 1998 (or specification TT-L-20, revision A)
- 2.2 MIL-STD-2073-1
- 2.3 FED-STD-595
- 2.4 MIL-STD-129
- 2.5 Code of Federal Regulations (CFR), Title 49
- 2.6 International Air Transport Association (IATA)

2.2 Government Furnished Equipment/Material (GFE/GFM): None.

3.0 REQUIREMENTS:

3.1 General. The contractor shall provide the necessary services, personnel, labor, test equipment, facilities, materials, supplies and equipment to produce, inspect, package and deliver the four ounce bottles of Lacquer in accordance with this SOW.

3.2 Lacquer. The lacquer shall be black color number 37038 per FED-STD-595 and shall conform to commercial item description, A-A-3164 (or TT-L-20). Material Safety Data Sheets (MSDS) shall be included with each bottle of lacquer.

3.3 Container. The Lacquer shall be provided in a suitable four (4) ounce boston round glass bottle that complies with hazardous material regulations. Each bottle shall be provided with a black plastic cap with a polyethylene cone liner. Glass bottles shall be color amber.

3.4 Marking. Markings shall be in accordance with MIL-STD-130 and hazardous material regulations. Marking by label is acceptable.

3.5 Packaging The contractor shall develop a military unit pack container for each 4 ounce bottle. Unit packs shall be further packaged in a shipping container configuration in accordance with Level B requirements of MIL-STD-2073-1. Packaging shall comply with the hazardous material marking and packaging requirements in MIL-STD-2073-1, Appendix A; and MIL-STD-129. Coded data is not required. Quantities shall be as specified on the contract.

3.6 Delivery. Delivery shall be as specified in the Contract. All units delivered under this contract shall be produced and packaged in the same manner as those produced during the First Article. Any deviations from this requirement shall be approved by the Government contracting officer.

4.0 Quality

4.1 FIRST ARTICLE (PREPRODUCTION)

4.1.1 FA Sample Quantity: Four (4) sample bottles shall be made and packaged in accordance with this SOW. The contractor shall provide written evidence in the form of certificates of conformance, that all materials comply with the requirements of this SOW.

4.1.2 FA Report. The contractor shall prepare and submit a FA report describing the results of the FA. Report shall be submitted in contractor format and shall include information certifying conformance to sections 3.2, 3.3, 3.4, and 3.5 of this SOW and any test results, as applicable. A copy of the FA Test report shall be submitted in electronic or hardcopy form to the address below. In addition, two (2) sample bottles from the FA shall also be submitted to the Government as part of the FA report to the addresses below:

a. One (1) bottle to:
SBCCOM (RI)
ATTN: Paul Carlson
1 Rock Island Arsenal
Bldg 62, Third Floor
Rock Island, IL 61299-7390

b. One (1) bottle to:
RDECOM, Edgewood Chemical Biological Center
Packaging Team/AMSRD-ECB-ENA-P
ATTN: Nancy Waltman or Rosina Poole
Room 101, Bldg E3331
APG-EA, MD 21010-5424

4.2 Quality Conformance. Contractor shall have a Quality Assurance (QA) and Inspection program to ensure conformance to all the requirements of this SOW.

5.0 ACCEPTANCE AND DELIVERY. Shall be as specified in the contract.

Attachment 003

[metric]

A-A-3164

August 20, 1998

Superceding

TT-L-20

April 25, 1967

COMMERCIAL ITEM DESCRIPTION

SYNTHETIC LACQUER, CAMOUFLAGE, EXTERIOR, VOC COMPLIANT

The General Services Administration has authorized the use of this commercial item description as a replacement for Federal Specification TT-L-20 for all federal agencies.

1.0 SCOPE. This description covers a lusterless (flat) and semigloss synthetic resin lacquer for application onto lacquer resistant primer or recoating prepared metal surfaces. Not for use on bare metal, without a primer undercoat. Provides a rapid tack free and dry hard condition at temperatures lower than curing type resins.

2.0 SALIENT CHARACTERISTICS.

Characteristics	Requirements	Methods
(1) Min. Nonvolatile (liquid wt. basis)	flat-45.0%; semigloss 40.0%	ASTM D 1644
(2) Max. Pigment ¹ (N.V. wt. basis)	flat 60.0%; semigloss 50.0%	ASTM D 1644
(3) Min. Vehicle/resin ² (N.V. wt. basis)	flat 40.0%; semigloss 50.0%	ASTM D 2372
Nitrocellulose Content	25.0% - 30.0%	FedStd 141C/5205.2
Non-drying resins	53.0% - 61.0%	ASTM D
(4) Volatile Organic Content	420 g/L (SCAQMD Rule 1124)	EPA Test Method 24
(5) Material Safety Data Sheet	required for all shipments	or ASTM D 2369
(6) Drying time @ (40-60 microns wet film)		
"dry-to-touch"	15 minutes maximum	ASTM D 1640-83
"dry-hard"	40 minutes maximum	ASTM D 1640-83
(7) Specular gloss @ 60° angle	see Note ³ attached	ASTM D 523
(8) Prohibited chemicals, Appendix A	less than 0.06% (wt.)	ASTM specific ⁴
(9) Adhesion	3B rating or better	ASTM D 3359
(10) Contrast ratio (1.0 mil dry film)	see Note ⁵	ASTM D 2805
(11) Dilutable -com'l lacq'r. thinner	no phasing/coagulation	visual
(12) Self lifting ⁶	no wrinkles after 30 min.	visual
(13) Water resistance ⁷	no whitening or defects	ASTM D 870
(14) Viscosity (#4 Ford cup)	16-25 seconds maximum	package lacquer
(15) Removal of dried lacquer film	shall be removable	See Note 8, attached
(16) Cold bending & flaking ⁹	No cracking or flaking	ASTM D 522
(17) Color ¹⁰	Visual match to FedStd 595B	ASTM D 1729
(18) Fade resistance pigments ¹¹	Equal or better than pigment colors in Lightfastness Group II	ASTM D 4302

Beneficial comments, recommendations, additions, deletions, clarifications, etc. and any other data which may improve this document should be sent to: General Services Administration, GSA Center (10FTE), Auburn, WA 98001-6599

FSC 8010

A-A-3164

3.0 NOTES.

¹ **Pigment** Insignia white: flat color no. 37875 and semigloss color no. 27875 shall contain no tinting pigment, whatsoever.

² **Vehicle/resin.** Shall be phthalic anhydride modified non-drying oils. Phenolics resins and rosins are not permitted. The finished formulation shall have a minimum useable shelf life of 24 months with periodic warehouse temperatures up to 43°C (110° F)

³ **Specular gloss.** Shall be in accordance with the following requirements

<u>Semigloss colors</u>	<u>Min.</u>	<u>Max.</u>
24151 Interior green	12	17
25042 Sea blue	5	8
26081 Seaplane gray	8	12
27038 Instrument black	12	17
27875 Insignia white	40	55
<u>Nonspecular colors</u>		
all colors	-	5

⁴ **Prohibited chemicals.** Manufacturers may provide Certification from raw material suppliers. However, in case of dispute, the Government reserves the right to test for prohibited chemicals using any suitable ASTM method and protocols to verify that products contain less than 0.06% (wt.) of the Appendix A prohibited toxic chemical., provided the method(s) provide specific qualitative and quantitative determination of the prohibited chemicals. The test method selected shall differentiate similar chemical structures for positive identification and shall have sufficient sensitivity to quantitatively measure concentrations down to 0.012% (wt.) +/- 10% reproducibility, in triplicate.

⁵ Contrast ratio.	insignia white 37875	88 minimum
	insignia white 27875	88 "
	orange yellow 33538	88 "
	bright red 31136	88 "
	all other colors	98 "

⁶ **Self lifting.** Apply a 2nd coat of lacquer to the 1st "dry-hard" coat of the same lacquer, and observe for any signs of "lifting" of the first coat such as wrinkling, bubbling or other indication other than a smooth undisturbed lacquer film. Evidence of self-lifting shall be reason for rejection of all lacquer batches or lots manufactured in accordance with the same formulation and raw materials.

⁷ **Water Resistance.** This requirement applies to all colors of TPD-20 lacquer. Using a drawn-down bar, apply a 1.0 +/-0.2 mil dry film of lacquer to three (3) flat plate aluminum surfaces which are mechanically abraded (200 grit+) and degreased with a clean cloth, damp with clean new, lacquer thinner. No primer is under the lacquer which may interfere with results. Cure the film at 23°C and a maximum of 60% relative humidity for 72 hours. Totally submerge the three cured draw down specimens, horizontally under 2.54 cm (1.0 inch) of 23° C tapwater for 24 hours, remove and sponge dry. Repeat this procedure for four (4) cycles with no more than 15 minutes before re-immersion. The lacquer fails if any specimen shows even slight signs of "whitening-clouding", softening, lifting, blistering, change in color, loss of adhesion or hardness.

A-A-3164

*** Removal of dried lacquer.** Using a soft cotton wipe, previously wetted with lacquer thinner, a 1.0 mil thickness of dry-hard lacquer shall be dissolved using light to moderate hand pressure. Pre-wetting or softening of the dried lacquer surface is permitted. Two such removal actions using a clean final wipe cloth, dampened with lacquer thinner, shall result in complete lacquer removal to the bare substrate or an insoluble primed surface.

*** Cold Bending and Flaking.** Use Method B [3/4" diameter or 1.905 cm] cylindrical mandrel of ASTM D 522. To degreased, mill finish aluminum sheet, 8mm - 10 mm thick (22-28 gauge), apply a light fog coat of the test coating in lieu of a primer; allow the "fog" coat to dry for 40 minutes at a minimum of 23° C and 40-60% relative humidity. Apply a 40-60 micron thick wet film of test coating over the fogged (primer) base coat and allow to dry for 24 hours, at the above conditions, before testing in accordance with ASTM D 522.

¹⁰ Color proximity. Color shall be as specified in the contract or purchase order in accordance with FedStd 595B; CIE Lab. Delta E = 1.0 maximum.

¹¹ Fade resistant pigments. In case of dispute or color fading complaints from Government users, commercial lacquer products shall have equal or better fade resistance to the ASTM "Lightfast-ness II - Very good lightfastness" color group pigments listed ASTM D 4302, when tested in accordance with ASTM D 2244 or D 822. Test shall be run using unfiltered light, no water exposure and a duration sufficient to detect fading of the standard color lacquer/paint which shall contain pigments listed within ASTM D 4302

Review activities:

Army AV
Navy SH
Air Force 99

Preparing activity:

Civil agency -GSA

User activities:

Army AV